Docket No.: FOLTYN Appl. No.: 10/595,486

AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS

 (Currently amended) A method of executing a measurement or control action, comprising the steps of:

generating a temporally periodic synchronization signal by a receiver based on a timing reference signal;

dividing the temporally periodic synchronization signal by a switching frequency generated by a timing generator [[(14)]] into a plurality of switching intervals; and

associating a switching command to each of the switching intervals to trigger an associated switching process of the measurement or control action.

- (Currently amended) The method of claim 1, wherein the receiver comprises a GPS receiver for outputting a pulse-per-second (PPS) signal for use as the temporally periodic synchronization signal.
- 3. (Previously presented) The method of claim 1, wherein the timing generator comprises a quartz oscillator.
- 4. (Previously presented) The method of claim 1, further comprising the step of continuously correcting the synchronization signal by a correction value.
- 5. (Previously presented) A method for synchronizing several measurement and/or control actions, with each of the measurement or control actions being executed by a method of claim 1, wherein the timing reference signal is a common timing reference signal.
- 6. (Currently amended) The method of claim 5, wherein the timing reference signal is a GPS signal.

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7. (Currently amended) A controller for executing a measurement or control action, comprising:

a receiver configured to generate a temporally periodic synchronization signal based on a timing reference signal;

a timing generator configured to generate a switching frequency;

a pulse divider configured to divide the <u>temporally periodic</u> synchronization signal into a plurality of switching intervals based on the switching frequency and associating a switching command to each of the switching intervals; and

a device receiving the switching command from the pulse divider for triggering a corresponding switching process and executing the measurement or control action.

8. (Previously presented) The controller of claim 7, further comprising a stored program control for supplying a sequence of switching commands to the pulse divider.